

Amendments to the Claims:

This listing of claims will replace all prior version, and listings, of claims in the application:

Listing of Claims:

1. (CURRENTLY AMENDED) A method for processing video data for display on a display device having a plurality of luminous elements comprising:
 - applying a dithering function to at least part of said video data, wherein the dithering improves [[the]] a grey scale portrayal of video pictures of said video data,
 - computing at least one motion vector from said video data,
 - changing at least one of the phase, amplitude, spatial resolution and temporal resolution of said dithering function in accordance with said at least one motion vector when applying the dithering function to said video data; and
 - outputting the dithered video data to a display device.
2. (PREVIOUSLY PRESENTED) The method according to claim 1, wherein said dithering function includes two spatial dimensions and one temporal dimension.
3. (PREVIOUSLY PRESENTED) The method according to claim 1, wherein said dithering function includes the application of a plurality of masks.

4. (PREVIOUSLY PRESENTED) The method according to claim 1, wherein said applying of said dithering function is based on single luminous elements of said display device.
5. (PREVIOUSLY PRESENTED) The method according to claim 1, wherein said dithering function is a 1-, 2-, 3- or 4- bit dithering function.
6. (PREVIOUSLY PRESENTED) The method according to claim 1, wherein said at least one motion vector is defined for each pixel or cell individually.
- 7 – 16 (CANCELLED)
17. (NEW) A device for processing video data for display on a display device having a plurality of luminous elements, said device comprising:

dithering means for applying a dithering function to at least a part of said video data to refine a grey scale portrayal of video pictures of said video data; and

motion estimations means connected to said dithering means for computing at least one motion vector from said video data, wherein at least of a phase, an amplitude, a spatial resolution and a temporal resolution of said dithering function is changeable in accordance with said at least one motion vector.
18. (NEW) The device according to Claim 17, wherein said dithering function used by said dithering means includes two spatial dimensions and a temporal dimension.

19. (NEW) The device according to Claim 17, wherein said dithering function of said dithering means is based on a plurality of masks.
20. (NEW) The device according to Claim 17, wherein said dithering function of said dithering means is based on a single luminous element, said single luminous element called a cell of the display device.
21. (NEW) The device according to Claim 17, wherein said dithering means is able to process a 1-, 2-, 3- or 4-bit dithering function.
22. (NEW) The device according to Claim 17, wherein said at least one motion vector is definable for each pixel of the display device individually by said motion estimation means.
23. (NEW) The device according to Claim 17, wherein said at least one motion vector includes two spatial dimensions.
24. (NEW) The device according to Claim 17, further comprising gamma function means connected to said dithering means, so that the input signals of said dithering means are pre-corrected by a gamma function.
25. (NEW) The device according to Claim 17, further comprising controlling means connected to said dithering means for controlling said dithering means temporally in dependence of frames of said video data.